**Fig. 1**

# Covalent modification of p90rsk in *Xenopus* egg extracts

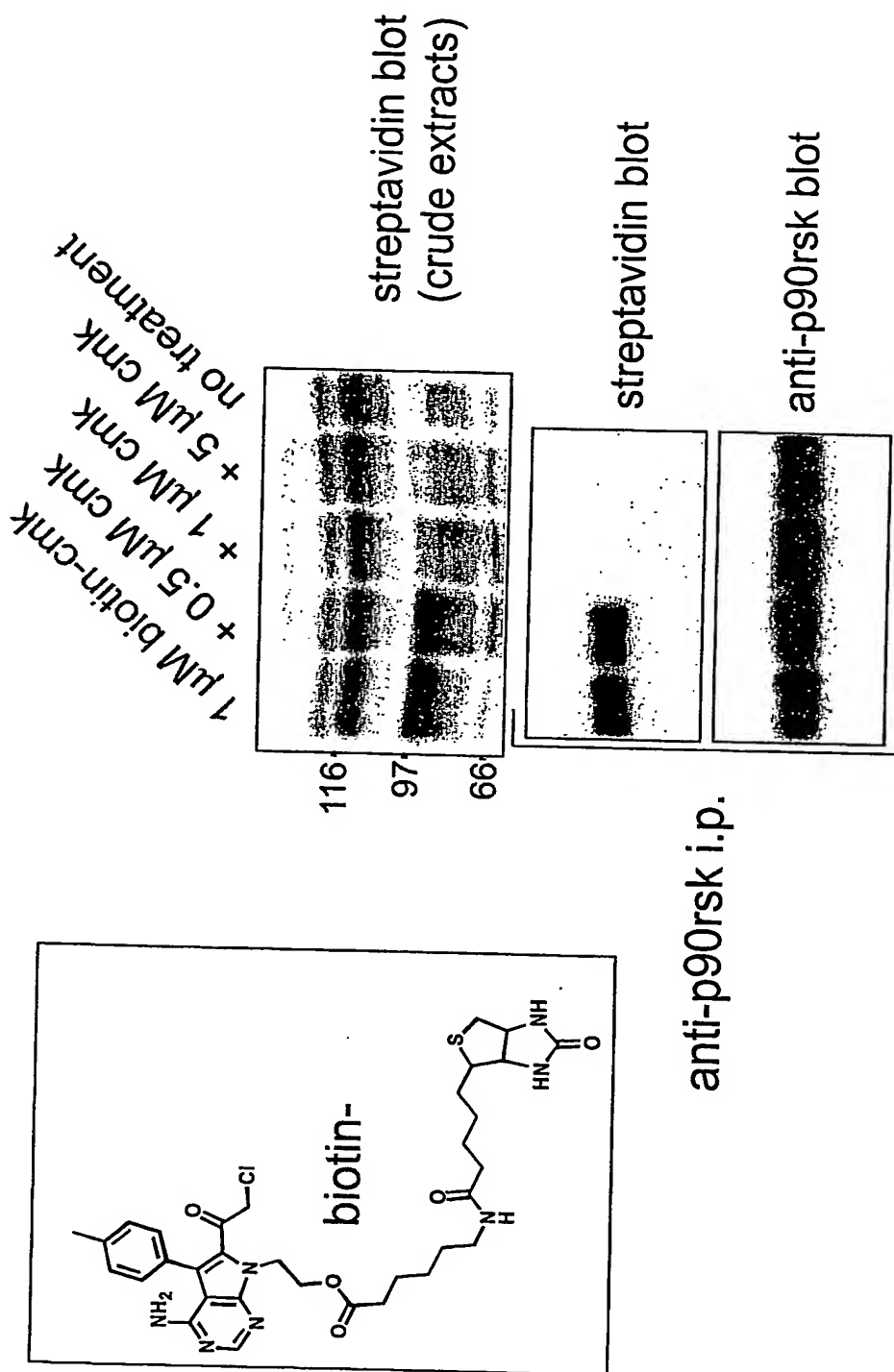


Fig. 2

# Preparation of fluorescent cmk derivatives

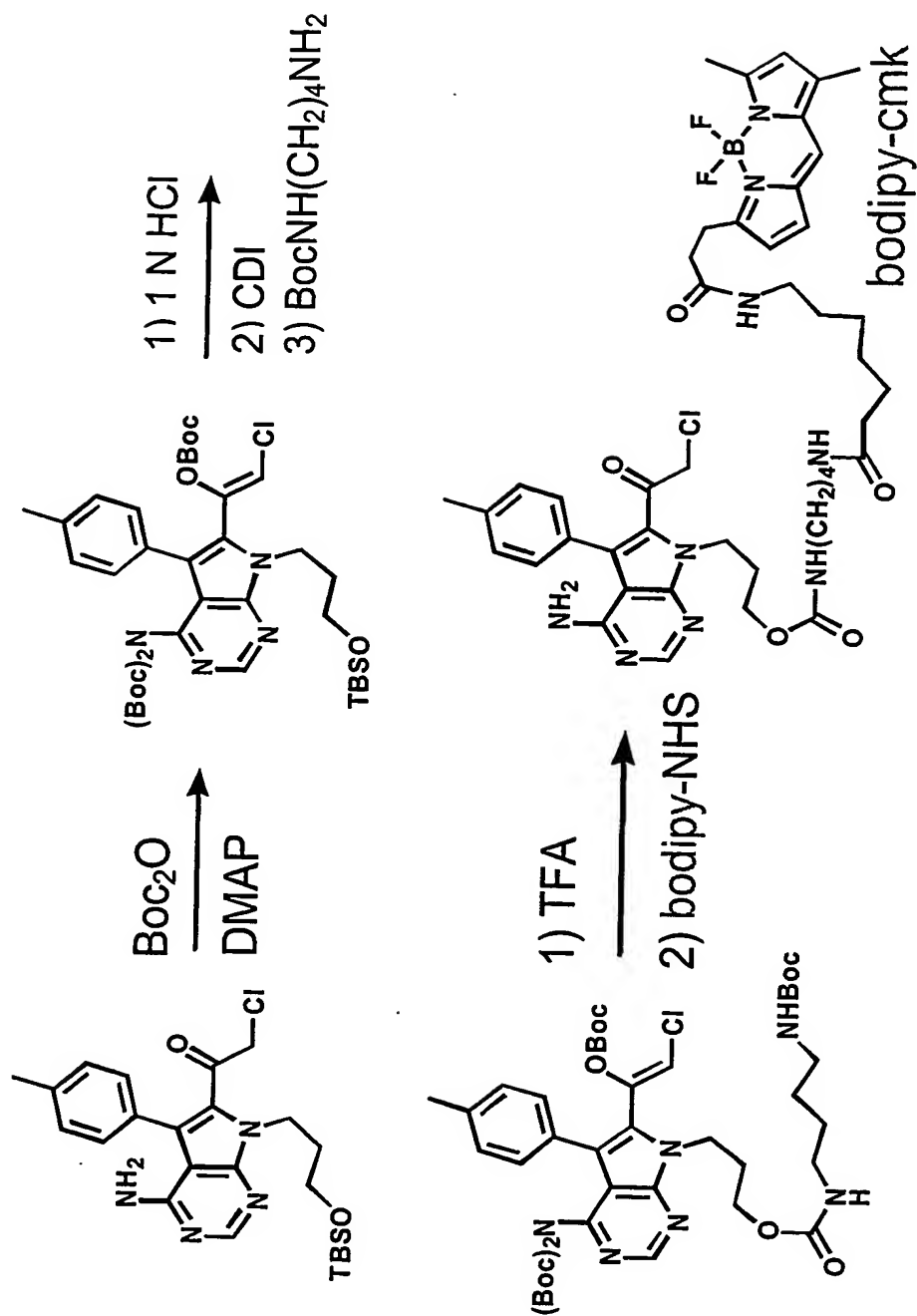


Fig. 3

Inhibition of Rsk autophosphorylation in Swiss 3T3 fibroblasts

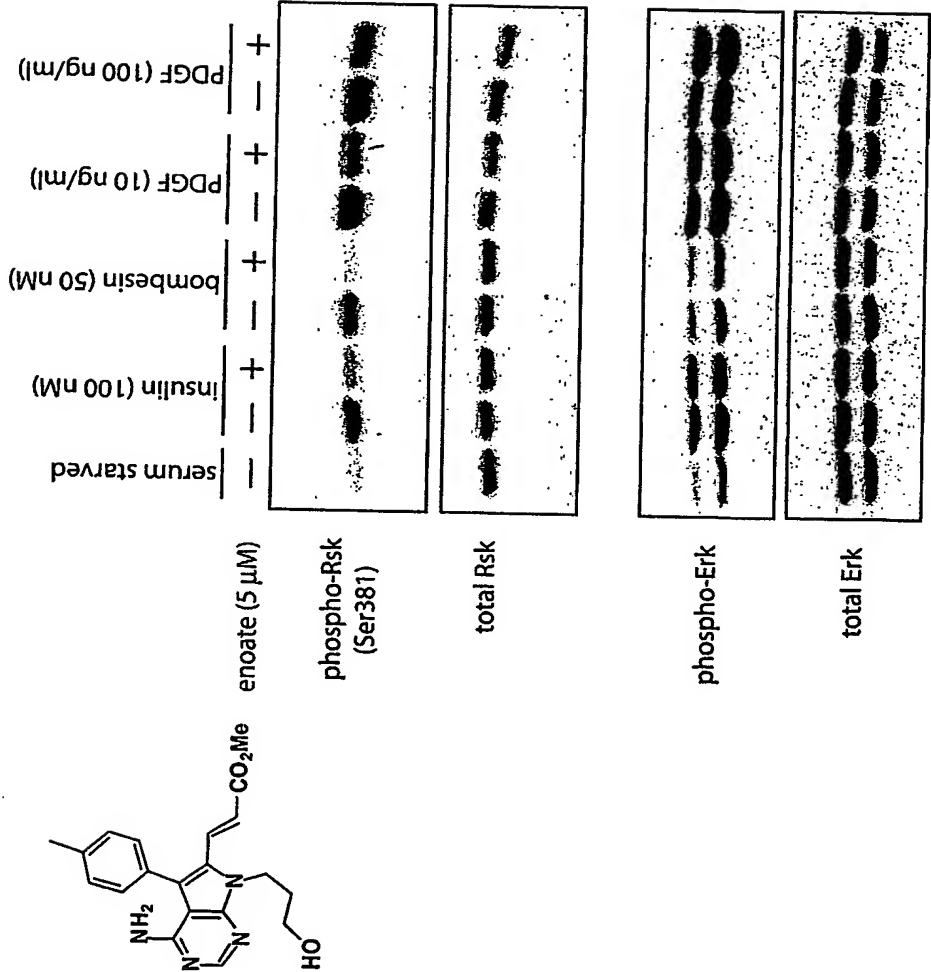
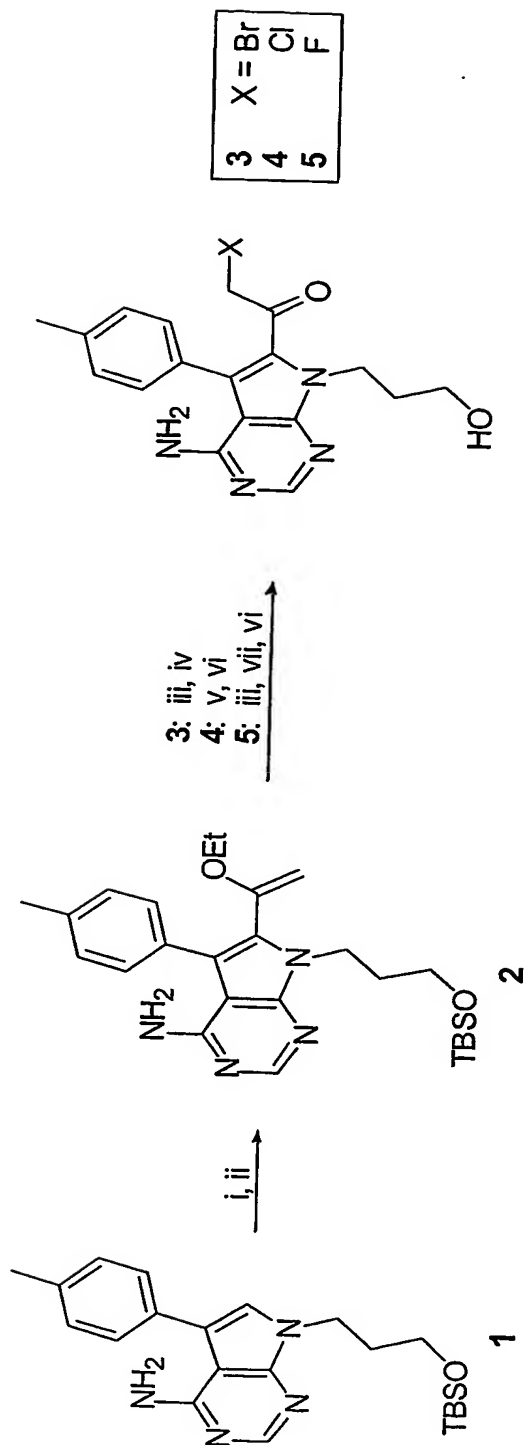


Fig. 4



<sup>a</sup>Reagents and conditions: (i) NBS, DMF, rt (ii) Pd(PPh<sub>3</sub>)<sub>4</sub>, α-(ethoxyvinyl)tin, toluene, reflux. (iii) NBS, NaHCO<sub>3</sub>, H<sub>2</sub>O, DMF, -20 °C. (iv) 1:3 1N HBr:THF, 0 °C to rt. (v) NCS, NaHCO<sub>3</sub>, H<sub>2</sub>O, MeCN, rt. (vi) 1:3 1N HCl:THF, 0 °C to rt. (vii) KF, [bmim][BF<sub>4</sub>], H<sub>2</sub>O, MeCN, 60 °C.

Fig. 5

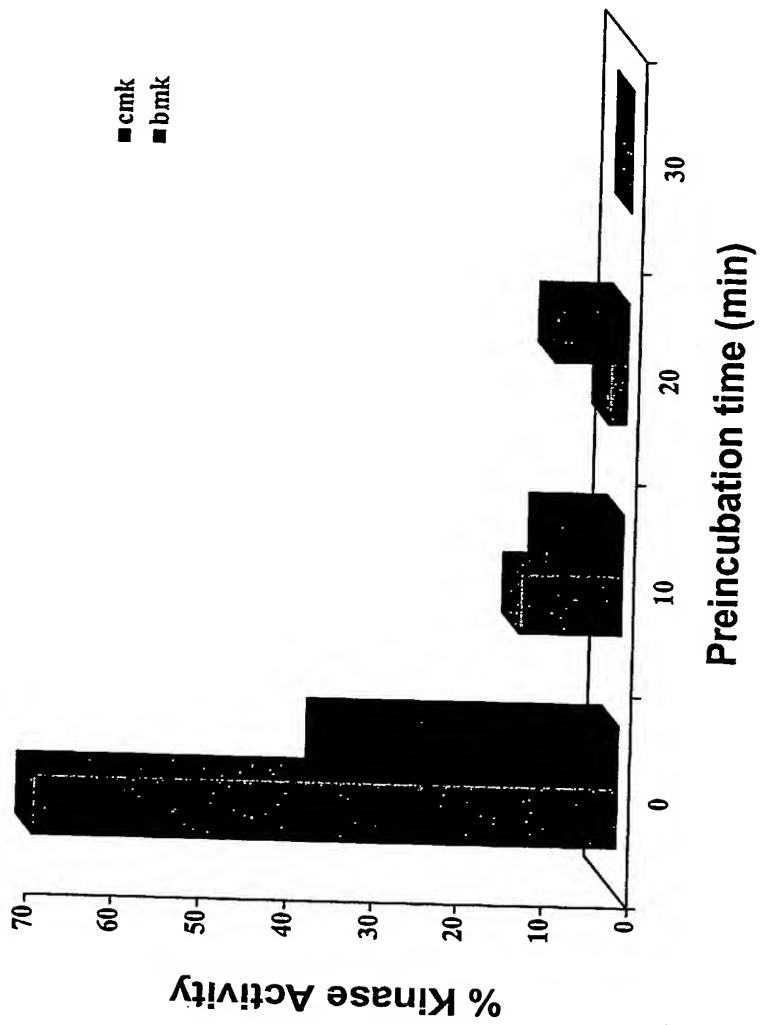


Fig. 6

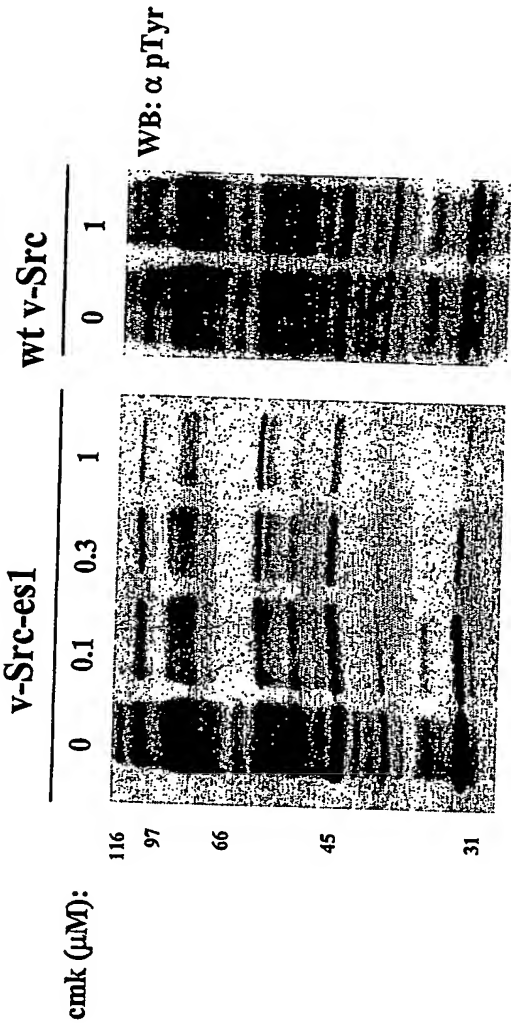


Fig. 7

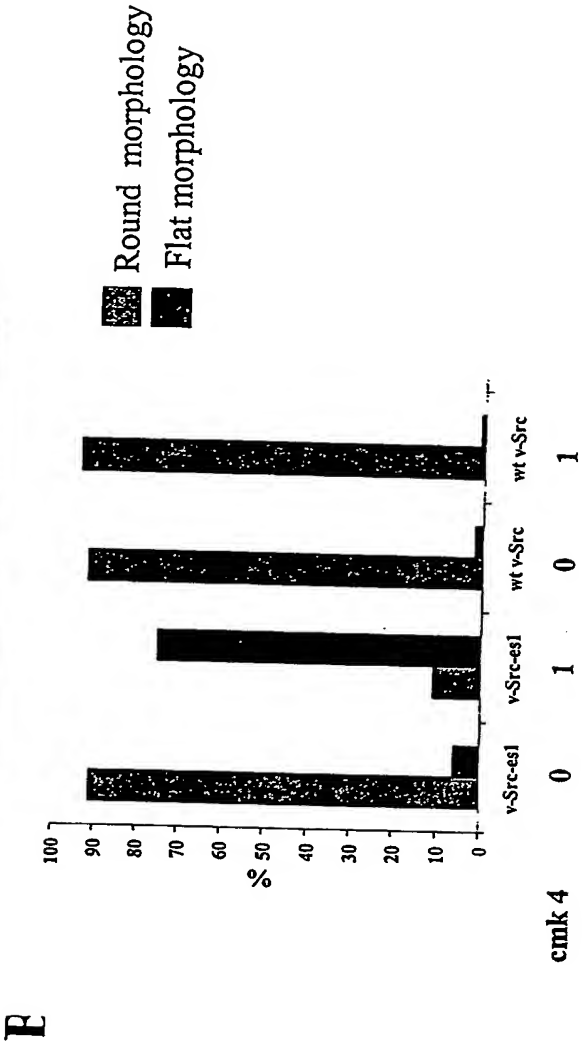
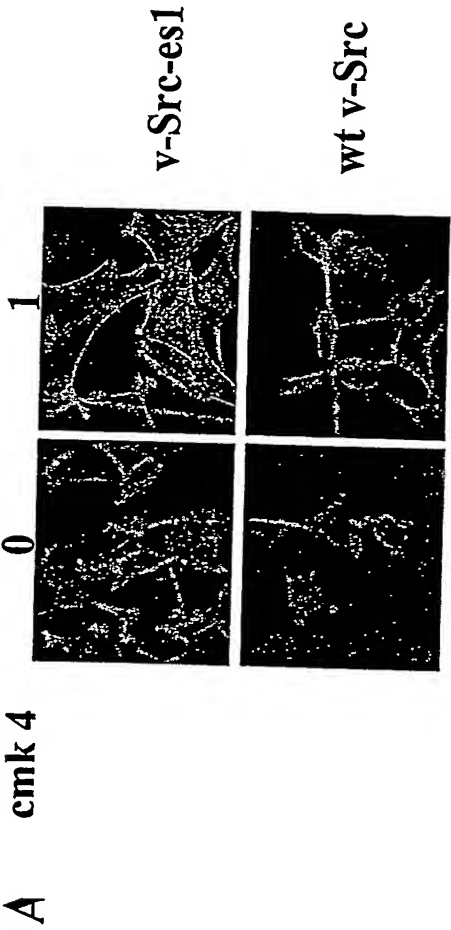


Fig. 8



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